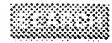




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1 [Manufacturing resource planning on a PC local area network](#)

H. Clark Kee, Roy L. Post

May 1986 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on**

Full text available: pdf(1.47 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper details a large APL programming project of 12 man years. An integrated software system principles of MRP (manufacturing resource planning) was implemented by a Bristol-Myers in house new manufacturing facility. The system applies off-the-shelf technology in innovative ways, using as the only programming language, to build a very sophisticated application on IBM/PCs fully shared environment via the N ...

2 [Experiences with network-based user agents for mobile applications](#)

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(631.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index t](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to other limitations of the wireless mobile environment that has been widely pursued is the placement of agents, inside the network to assist with application processing that would normally take place on agents can additionally manipulate data to reduce bandwidth requirements and assist in providing design and implementation of a user a ...

3 [A buddy model of security for mobile agent communities operating in pervasive scenarios](#)

John Page, Arkady Zaslavsky, Maria Indrawan

January 2004 **Proceedings of the second workshop on Australasian information security, Data Intelligence, and Software Internationalisation - Volume 32**

Full text available: pdf(344.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)


This paper examines the security aspects of different pervasive scenarios involving agent communities multi agent systems (MAS). It describes the motivation and the objectives behind the development of communities and analyses the security vulnerabilities, which arise within them. To counter these vulnerabilities, the paper proposes a Buddy model of security for the agent community. In this model, every agent participates within the community, thereby sharing ...

Keywords: community, malicious, mobile agents (MA), security, vulnerability

4 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Full text available:  pdf(1.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved. The field of outsourcing research has grown so fast that there has been scant opportunity for the researchers to take a collective breath, and complete a global assessment of research activities to date. This paper takes this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a road map of outsourcing literature, highlights ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, foundations

5 Intelligent profiling by example

Sybil Shearin, Henry Lieberman

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**

Full text available:  pdf(249.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The Apt Decision agent learns user preferences in the domain of rental real estate by observing their apartment features. Users provide a small number of criteria in the initial interaction, receive a list of apartments, and then react to any feature of any apartment independently, in any order. Users learn what is important to them as they discover the details of specific apartments. The agent uses interactive techniques to build a profile of ...

Keywords: electronic profiles, infomediary, interactive learning, personalization, profiling, real estate preferences

6 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available:  pdf(170.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This article looks at the Internet and the changing set of requirements for the Internet as it becomes commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss the principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that the range of new requirements now emerging could have the consequence of compromising the original design principles. We ...

Keywords: ISP, Internet, end-to-end argument

7 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**


Full text available:  pdf(5.73 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

8 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8

Full text available:  pdf(6.32 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure and the major components of Cedar and the way they are organized. Cedar supports the development of a single programming language, also called Cedar. Its primary purpose is to increase the productivity of those whose activities include experimental programming and the development of prototype software systems on a performance personal computer. T ...

9 [Database support for usability testing](#)

Kara Pernice, Mary Beth Butler

January 1995 **interactions**, Volume 2 Issue 1

Full text available:  pdf(1.59 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

10 [View management in multimedia databases](#)

K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 17

Full text available:  pdf(322.82 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


Though there has been extensive work on multimedia databases in the last few years, there is no multimedia view, nor there are techniques to create, manage, and maintain such views. Visualizing a dynamic multimedia query or materializing a dynamic multimedia view corresponds to assembling an interactive multimedia presentation in accordance with the visualization specifications. In this paper, we present a non-interactive multimedia presentation ...

Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, Visualization

11 [Programming languages for distributed computing systems](#)

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  pdf(6.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When distributed systems first appeared, they were programmed in traditional sequential languages with the addition of a few library procedures for sending and receiving messages. As distributed applications became commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers began designing new programming languages specifically for implementing distributed applications and their history, their underlying principles ...

12 [Regulating Internet payment intermediaries](#)

Ronald J. Mann

September 2003 **Proceedings of the 5th international conference on Electronic commerce**

Full text available:  pdf(173.74 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper examines legal and policy issues raised by changes in payment methods related to the Internet. The two major changes -- the rise of P2P systems like PayPal, and the rise of Internet billing systems -- both involve new intermediaries that facilitate payments made by payment systems. The paper first discusses how those systems work. It then discusses problems currently used to regulate those systems ...

Keywords: EBPP systems, Gramm-Leach-Bliley, Internet, P2P payments, Regulation E, data privacy, transfer act, gatekeepers, payment systems

13 [Meriposa: a wide-area distributed database system](#)

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, And January 1996 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volum

Full text available:  [pdf\(172.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


The requirements of wide-area distributed database systems differ dramatically from those of local systems. In a wide-area network (WAN) configuration, individual sites usually report to different site administrators, have different access and charging algorithms, install site-specific data type extensions, have different constraints on servicing remote requests. Typical of the last point are production transactions which are fully engaged during normal business hours ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area

14 [Providing location information in a ubiquitous computing environment \(panel session\)](#)

Mike Spreitzer, Marvin Theimer

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM Operating systems principles**, Volume 27 Issue 5

Full text available:  [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To take full advantage of the promise of ubiquitous computing requires the use of location information. Users should have control over who may know their whereabouts. We present an architecture that achieves an interesting set of applications. Personal information is managed by User Agents, and a partially distributed Location Query Service is used to facilitate location-based operations. This architecture gives users control over their location information, at the ...

15 [Broadcast protocols to support efficient retrieval from databases by mobile users](#)

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1

Full text available:  [pdf\(636.48 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive broadcast protocols has become an important problem. Such protocols are employed by database servers to decide on the content of queries dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and propose efficient retrieval schemes ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

16 [Process migration](#)

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load balancing, fault resilience, eased system administration, and data access locality. Despite these goals and on-going efforts, migration has not achieved widespread use. With the increasing deployment of distributed and distributed operating systems in particular, process migration is again receiving more attention and product development. As hardware and software development ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

17 [Laws and applications: Preserving privacy when preference searching in e-commerce](#)

Rhys Smith, Jianhua Shao

October 2003 **Proceedings of the 2003 ACM workshop on Privacy in the electronic society**

Full text available:  [pdf\(258.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The idea of using user preferences to assist with information filtering and with providing the most to queries has recently received some attention from the research community. This has resulted in several frameworks for formulating preferences and their direct embedding into relational query language. In this paper we discuss major exploitation issues and privacy concerns inherent in the basic paradigm and proposed approaches when used with e-bus ...

Keywords: e-commerce, exploitation, privacy, user preferences

18 Information delivery systems: an exploration of Web pull and push technologies

Julie E. Kendall, Kenneth E. Kendall


April 1999 **Communications of the AIS**

Full text available:  pdf(658.33 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 An approach to providing a seamless end-user experience for location-aware applications

Sastry Duri, Alan Cole, Jonathan Munson, Jim Christensen

July 2001 **Proceedings of the 1st international workshop on Mobile commerce**

Full text available:  pdf(615.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


With an increasing number of businesses considering the possibility of launching location-aware, networked applications, the quality of the end-user experience will become more and more critical. We propose *bookmarks* and *location domains* as mechanisms to give consumers simple and straightforward access to a dynamically changing set of location-based services. Dynamic bookmarks are descriptions of services bound to actual, registered, services as a user's ...

Keywords: dynamic bookmark, location domain, location-aware applications, location-based services, commerce, mobile computing

20 Applications and architecture: SHOCK: communicating with computational messages and agent profiles

Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  pdf(693.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)





A computationally enhanced message contains some embedded programmatic components that are executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible useful applications. In this paper, we describe a general and flexible messaging system called SHC that provides functionality of prior computational email systems by allowing XML-encoded SHOCK messages to be automatically created from a profile of a user. These profiles ...

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

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1 [Manufacturing resource planning on a PC local area network](#)

H. Clark Kee, Roy L. Post

 May 1986 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on .**

Issue 4

 Full text available: [pdf\(1.47 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

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2 [Disconnected processes, mechanisms and architecture for mobile e-business](#)

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li

 December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

 Full text available: [pdf\(625.38 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e-business in various and business markets. In this paper, we present a novel architecture and framework for end-to-end business applications (e.g., point of sales). The architecture takes into consideration disconnection context, synchronization, transactions and failure recovery ...

Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote seamless business transaction

3 [Broadcast protocols to support efficient retrieval from databases by mobile users](#)

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

 March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1

 Full text available: [pdf\(636.48 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive broadcast protocols proposed as an important problem. Such protocols are employed by database servers to decide on the broadcasts dynamically, in response to client mobility and demand patterns. In this paper we describe protocols and also propose efficient retrieval schemes ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile d.

4 Information technology, process reengineering, and performance measurement: a balanced analysis of Compaq computer corporation

William F. Wright, Rodney Smith, Ryan Jessor, Mark Stupeck

February 1999 **Communications of the AIS**


Full text available:  [pdf\(284.66 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

5 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8

Full text available:  [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype systems for a high-performance personal computer. This paper ...

6 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Full text available:  [pdf\(293.73 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web personalization is the process of customizing a Web site to the needs of specific users, taking into account the knowledge acquired from the analysis of the user's navigational behavior (usage data) in conjunction with other information collected in the Web context, namely, structure, content, and user profile data. In the face of the explosive growth of the Web, the domain of Web personalization has gained great momentum both in research and commercial areas. In this article we present a survey of the current state of the art in Web personalization ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

7 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available:  [pdf\(631.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to the problems and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on the devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in the delivery of services. The design and implementation of a user agent for mobile applications ...

8 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, And
January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5

Full text available:  [pdf\(172.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The requirements of wide-area distributed database systems differ dramatically from those of local database systems. In a wide-area network (WAN) configuration, individual sites usually report to different servers ...

administrators, have different access and charging algorithms, install site-specific data type extensions, different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business hours.

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area

9 Process migration

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3Full text available: pdf (1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index text](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load balancing, fault resilience, eased system administration, and data access locality. Despite these goals and on-going efforts, migration has not achieved widespread use. With the increasing deployment of distributed operating systems in particular, process migration is again receiving more research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

¹⁰ An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Pluempitiwiriyawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal** – The International Journal on Very Large Data Bases, Volume 10(4)Full text available: pdf(355.19 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation system for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in procurement, production, distribution, and scheduling. Multiple copies of our server can be installed to complement the service: one for each enterprise or a group of enterprises. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation poli strategy, Negotiation protocol

11 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4Full text available: pdf (1.51 MB)

Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved in the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities that seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. This paper presents a roadmap of the IS outsourcing literature, highlight ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approach, theoretical foundations

12 View management in multimedia databases

K. Selcuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume

Full text available: pdf(322.82 KB)

Additional Information: full citation, abstract, index terms

Though there has been extensive work on multimedia databases in the last few years, there is no notion of a multimedia view, nor there are techniques to create, manage, and maintain such views: the results of a dynamic multimedia query or materializing a dynamic multimedia view correspond and delivering an interactive multimedia presentation in accordance with the visualization specific paper, we suggest that a non-interactive multimedia prese ...

Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, Vie

13 FieldWise: a mobile knowledge management architecture

Henrik Fagrell, Kerstin Forsberg, Johan Sanneblad

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperativ**

Full text available:  [pdf\(470.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index ter](#)

The paper presents results of a research project that has aimed at developing a knowledge manag architecture for mobile work domains. The architecture developed, called FieldWise, was based on two organisations and feedback from users of prototype systems. This paper describes the empiric requirements of FieldWise, how these have been realised in the architecture, and how the architec implemented in the news journalism domain. FieldWise adds to th ...

Keywords: hand-held devices, knowledge management, mobile CSCW, organisational memory

14 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Full text available:  [pdf\(237.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


An open (in the sense of extensible and programmable) architecture for IP telecommunications m a comprehensive strategy for managing feature interaction. We describe our experience with BoxC telecommunication platform that implements the DFC technology for feature composition. We pres problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol mail, feature interaction, instant messaging, multimedia systems, network addressing, network in network optimization, network protocols, service creation

15 Current technological impediments to business-to-consumer electronic commerce

Gregory Rose, Huoy Khoo, Detmar W. Straub

June 1999 **Communications of the AIS**

Full text available:  [pdf\(479.36 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

16 A service management framework for M-commerce applications

Gary Shih, Simon S. Y. Shim

June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3

Full text available:  [pdf\(350.12 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index ter](#)

Mobile commerce (m-commerce) refers to an ability to conduct wireless commerce transactions us applications in mobile devices. M-commerce applications can range from as simple as an address l synchronization to as complicated as credit card transactions. M-commerce is expected to grow dr the near future supporting simple to complex commerce transactions. Even though the Wireless A

Protocol (WAP) is designed to facilitate the development of wireless application ...

Keywords: JINI, WAP, m-commerce, management, mobile devices

17 Access control for large collections

H. M. Gladney

April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

Full text available:  pdf(482.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Efforts to place vast information resources at the fingertips of each individual in large user populations are balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must accommodate enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, engineering, and scientific use.

Keywords: access control, digital library, document, electronic library, information security

18 Programming languages for distributed computing systems

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  pdf(0.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When distributed systems first appeared, they were programmed in traditional sequential languages with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers in the world began designing new programming languages specifically for implementing distributed systems. These languages and their history, their underlying principles, and their future are discussed.

19 Applications and architecture: SHOCK: communicating with computational messages and at private profiles

Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  pdf(893.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computationally enhanced message contains some embedded programmatic components that are executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These principles are discussed.

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

20 Laws and applications: Preserving privacy when preference searching in e-commerce

Rhys Smith, Jianhua Shao

October 2003 **Proceedings of the 2003 ACM workshop on Privacy in the electronic society**

Full text available:  pdf(258.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The idea of using user preferences to assist with information filtering and with providing the most relevant answers to queries has recently received some attention from the research community. This has resulted in the proposition of several frameworks for formulating preferences and their direct embedding into relational database languages. In this paper we discuss major exploitation issues and privacy concerns inherent in the use of these proposed approaches when used with e-commerce systems.





Keywords: e-commerce, exploitation, privacy, user preferences

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1 [Broadcast protocols to support efficient retrieval from databases by mobile users](#)

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1

Full text available: [pdf\(638.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive broadcast protocols has been posed as an important problem. Such protocols are employed by database servers to deliver the content of broadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval schemes ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

2 [Manufacturing resource planning on a PC local area network](#)

H. Clark Kee, Roy L. Post

May 1986 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 16 Issue 4

Full text available: [pdf\(1.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper details a large APL programming project of 12 man years. An integrated software system structured on the principles of MRP (manufacturing resource planning) was implemented by a British firm in house team for use in a new manufacturing facility. The system applies off-the-shelf technology in innovative ways, using STSC APL*PLUS/PC as the only programming language, to build a very sophisticated application on IBM/PCs fully sharing data in a secure environment via the Network ...

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Distributed Systems and Collaborative research**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application ...

In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available:  [pdf\(631.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user agent ...

5 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1

Full text available:  [pdf\(355.19 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation server conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotiation ...

Keywords: Constraint evaluation, Cost-benefit analysis, Database, E-commerce, Negotiation policy strategy, Negotiation protocol

6 Process migration

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As highlighted ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

7 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles

Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  [pdf\(693.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user or ...

Keywords: collaborative systems, networking and distributed web applications, privacy and prefe

8 View management in multimedia databases

K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume

Full text available:  pdf(322.82 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Though there has been extensive work on multimedia databases in the last few years, there is no prevailing notion of a multimedia view, nor there are techniques to create, manage, and maintain views. Visualizing the results of a dynamic multimedia query or materializing a dynamic multimedia corresponds to assembling and delivering an interactive multimedia presentation in accordance with visualization specifications. In this paper, we suggest that a non-interactive multimedia prese ...

Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, View management

9 Agents, interactions, mobility and systems: Agent-based mobility add-in feature for Object Transaction Service (OTS)

Hoang Pham Huy, Simone Sedillot

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(730.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service session mobility is a new concept in the next telecom service generation. It allows users to from one terminal in one network to another terminal in another network with service continuity. This concept requires migrating the current service execution related information, including service context, service data, etc, from one terminal to another. For services that execute within transactions, transaction context is a part of service context and must be migrated too. This paper prese ...

10 Disconnected processes, mechanisms and architecture for mobile e-business

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Full text available:  pdf(625.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e-business in both consumer and business markets. In this paper, we present a novel architecture and framework for end mobile e-business applications (e.g., point of sales). The architecture takes into consideration disconnection, application context, synchronization, transactions and failure recovery ...

Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote disconnection, seamless business transaction

11 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Full text available:  pdf(276.88 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routing in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

12 Providing location information in a ubiquitous computing environment (panel session)

Mike Spreitzer, Marvin Theimer

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available:  [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To take full advantage of the promise of ubiquitous computing requires the use of location information. People should have control over who may know their whereabouts. We present an architecture that achieves these goals for an interesting set of applications. Personal information is managed by User Agents, and a partially decentralized Location Query Service is used to facilitate location-based operations. This architecture gives users primary control over their location information, at the ...

13 Information-rich commerce at a crossroads: business and technology adoption requirements

Robert G. Fichman, Mary J. Cronin

September 2003 **Communications of the ACM**, Volume 46 Issue 9

Full text available:  [pdf\(108.80 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The day is approaching when most of our common transactions may be information-rich, but first extensive supporting infrastructure must be developed in three areas: devices, networking, and transaction processing.

14 Concepts and Notations for Concurrent Programming

Gregory R. Andrews, Fred B. Schneider

January 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 1


Full text available:  [pdf\(4.02 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Privacy online

Herman T. Tavani

December 1999 **ACM SIGCAS Computers and Society**, Volume 29 Issue 4

Full text available:  [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

16 sTeam - Designing an integrative infrastructure for Web-based computer-supported cooperative learning

Thorsten Hampel, Reinhard Keil-Slawik

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  [pdf\(255.67 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: cooperation support, cooperative learning, learner-centered approaches, sTeam - structured information in a team, web-based learning and teaching

17 Early user-system interaction for database selection in massive domain-specific online environments

Jack G. Conrad, Joanne R. S. Claussen

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available:  [pdf\(845.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to World Wide Web, increases the importance of effective and efficient database selection and search. Current research focuses largely on completely autonomous and automatic selection, searching, and


results merging in distributed environments. This fully automatic approach has significant deficiencies including reliance upon thresholds below which databases with relevant documents are not searched.

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

18 [Reasoning about naming systems](#)

Mic Bowman, Saumya K. Debray, Larry L. Peterson

November 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15

Full text available:  [pdf\(2.21 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: descriptive naming systems, inference mechanisms

19 [Web mining research: a survey](#)

Raymond Kosala, Hendrik Blockeel

June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Full text available:  [pdf\(1.58 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

Keywords: Web, data mining, information extraction, information retrieval

20 [Building efficient and effective metasearch engines](#)

Weiyi Meng, Clement Yu, King-Lup Liu

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  [pdf\(416.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Frequently a user's information needs are stored in the databases of multiple search engines. It is inconvenient and inefficient for an ordinary user to invoke multiple search engines and identify useful documents from the returned results. To support unified access to multiple search engines, a metasearch engine can be constructed. When a metasearch engine receives a query from a user, it invokes the underlying search engines to retrieve useful information for the user. Metasearch engines have ...





Keywords: Collection fusion, distributed collection, distributed information retrieval, information discovery, metasearch

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Full text available: [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index te](#)

To take full advantage of the promise of ubiquitous computing requires the use of location informa should have control over who may know their whereabouts. We present an architecture that achie for an interesting set of applications. Personal information is managed by User Agents, and a parti decentralized Location Query Service is used to facilitate location-based operations. This architect primary control over their location information, at the ...

2 [Unlinkable serial transactions: protocols and applications](#)

Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue

Full text available: [pdf\(184.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index te](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based sut services. It is the first protocol to use cryptographic blinding to enable subscription services. The p the service from tracking the behavior of its customers, while protecting the service vendor from a simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protc against failure in protocol termination. ...

Keywords: anonymity, blinding, cryptographic protocols, unlinkable serial transactions

3 [Process migration](#)

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index te](#)

Process migration is the act of transferring a process between two machines. It enables dynamic li fault resilience, eased system administration, and data access locality. Despite these goals and on efforts, migration has not achieved widespread use. With the increasing deployment of distributed general, and distributed operating systems in particular, process migration is again receiving more both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migratic

4 On secure and pseudonymous client-relationships with multiple servers

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue

Full text available:  pdf(161.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index to](#)


This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining pseudonymous relationships with multiple servers. The setting is such that clients reside on a subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine establishes each client-server relationship to use either weak or strong authentication on each interaction. At each interaction preserves privacy by neither revealing nor storing any information about the client's identity or the content of the interaction.

Keywords: Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

5 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available:  pdf(631.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index to](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to the problem of limited bandwidth is the use of network-based user agents. These agents can additionally manipulate data to reduce bandwidth requirements and assist in the design and implementation of a user interface.

6 FieldWise: a mobile knowledge management architecture

Henrik Fagrell, Kerstin Forsberg, Johan Sanneblad

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Full text available:  pdf(470.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index to](#)


The paper presents results of a research project that has aimed at developing a knowledge management architecture for mobile work domains. The architecture developed, called FieldWise, was based on the experiences of users of prototype systems. This paper describes the empirically determined requirements of FieldWise, how these have been realised in the architecture, and how the architecture is implemented in the news journalism domain. FieldWise adds to the existing knowledge management research.

Keywords: hand-held devices, knowledge management, mobile CSCW, organisational memory

7 Manufacturing resource planning on a PC local area network

H. Clark Kee, Roy L. Post

May 1986 **ACM SIGAPL APL Quote Quad**, **Proceedings of the international conference on APL**, Issue 4


Full text available:  pdf(1.47 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

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8 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, And
January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5

Full text available:  [pdf\(172.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The requirements of wide-area distributed database systems differ dramatically from those of local systems. In a wide-area network (WAN) configuration, individual sites usually report to different site administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business hours ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area

9 [Agents, interactions, mobility and systems: Agent-based mobility add-in feature for Object Technology Service \(OTS\)](#)

Hoang Pham Huy, Simone Sedillot

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

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10 [Current technological impediments to business-to-consumer electronic commerce](#)

Gregory Rose, Huoy Khoo, Detmar W. Straub

June 1999 **Communications of the AIS**


Full text available:  [pdf\(479.36 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

11 [A composable framework for secure multi-modal access to internet services from Post-PC devices](#)

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  [pdf\(340.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop: public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. Existing deployed Internet services are geared toward the secure rich interface of private desktops. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the Post-PC devices and the requirements of Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding

12 [Reasoning about naming systems](#)

Mic Bowman, Saumya K. Debray, Larry L. Peterson

November 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15

Full text available:  [pdf\(2.21 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: descriptive naming systems, inference mechanisms

13 [Identification control: Owner-controlled information](#)

Carrie Gates, Jacob Slonim

August 2003 **Proceedings of the 2003 workshop on New security paradigms**

Full text available:  [pdf\(1.96 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


Information about individuals is currently maintained in many thousands of databases, with much information, such as name and address, replicated across multiple databases. However, this proliferation of personal information raises issues of privacy for the individual, as well as maintenance issues in the accuracy of the information. Ideally, each individual would own, maintain and control his personal information, allowing access to those who needed it at the time it was needed. O ...

Keywords: architecture, privacy, security

14 Disconnected processes, mechanisms and architecture for mobile e-business

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Full text available:  [pdf\(625.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote seamless business transaction

15 sTeam - Designing an integrative infrastructure for Web-based computer-supported cooperative learning

Thorsten Hampel, Reinhard Keil-Slawik

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  [pdf\(265.67 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: cooperation support, cooperative learning, learner-centered approaches, sTeam - structured information in a team, web-based learning and teaching

16 Electronic commerce: a half-empty glass?

Sasa Dekleva

June 2000 **Communications of the AIS**


Full text available:  [pdf\(343.49 KB\)](#)

Additional Information: [full citation](#), [references](#)

17 Developing trust in internet commerce

Ildemaro Araujo, Iván Araujo

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(140.49 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the success of Web-based businesses depends essentially on their customers, consumers' trust in Internet commerce. This article outlines essential issues that may affect customers' trust on Web commerce. It also discusses key elements that can be used to improve the visitors' sense of trustworthiness of the Web site.

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C research**

Full text available:  pdf(4.21 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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19 [A structural view of the Cedar programming environment](#)

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8

Full text available:  pdf(6.32 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure and the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype systems for a high-performance personal computer. This ...

20 [Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation](#)

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Full text available:  pdf(927.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Internet traffic continues to grow and websites become increasingly complex, performance and reliability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to serve website visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost---each request requires computation as well as communication across multiple components. To address these issues, various dynamic content caching approaches have been proposed. This ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, caching, world wide web

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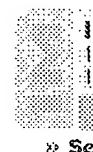
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1 Scalable Web server architectures
Mourad, A.; Huiqun Liu;

Computers and Communications, 1997. Proceedings., Second IEEE Symposium on , 1-3 July 1997

Pages:12 - 16

[\[Abstract\]](#) [\[PDF Full-Text \(484 KB\)\]](#) **IEEE CNF**
2 Buffer management and dimensioning for a pull-based parallel video server
Lee, J.Y.B.;

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 4 , April 2001

Pages:485 - 496

[\[Abstract\]](#) [\[PDF Full-Text \(220 KB\)\]](#) **IEEE JNL**
3 Cooperative caching middleware for cluster-based servers
Cuenca-Acuna, F.M.; Nguyen, T.D.;

High Performance Distributed Computing, 2001. Proceedings. 10th IEEE International Symposium on , 7-9 Aug. 2001

Pages:303 - 314

[\[Abstract\]](#) [\[PDF Full-Text \(796 KB\)\]](#) **IEEE CNF**
4 Radio frequency-based personnel location systems
Christ, R.; Lavigne, R.;

Security Technology, 2000. Proceedings. IEEE 34th Annual 2000 International Carnahan Conference on , 23-25 Oct. 2000

Pages:141 - 150

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Pages:1802 - 1806 vol.6

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Pages:184 - 185

[\[Abstract\]](#) [\[PDF Full-Text \(132 KB\)\]](#) IEEE CNF

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Pages:57 - 62

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) IEEE CNF

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Pages:3 - 12 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) IEEE CNF

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Pages:25 - 39

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE JNL**

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Pages:150 - 159 vol.1

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Pages:670 - 677

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[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) [23](#)
[25](#) [26](#) [27](#) [28](#) [29](#) [30](#) [31](#) [32](#) [33](#) [34](#) [Next](#)

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Pages:115 - 126

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[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) [23](#)
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